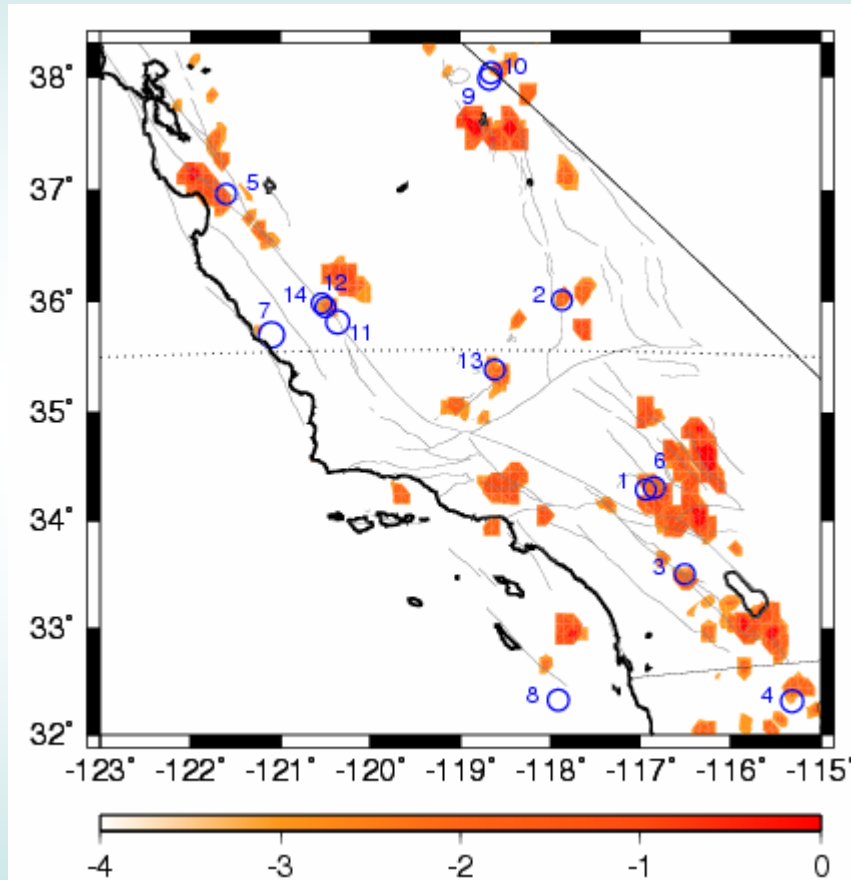


Status of the Real Time Earthquake Forecast Experiment (Composite Version)

(JB Rundle et al., PNAS, v99, Supl 1, 2514-2521, Feb 19, 2002; KF Tiampo et al., Europhys. Lett., 60, 481-487, 2002; JB Rundle et al., Rev. Geophys. Space Phys., 41(4), DOI 10.1029/2003RG000135, 2003. <http://quakesim.jpl.nasa.gov>)

How are We Doing? (Composite N-S Catalog)



Plot of Log_{10} (Seismic Potential)

Increase in Potential for large earthquakes, $M \geq 5$, ~ 2000 to 2010

Fourteen large events (blue circles) with $M \geq 5$ have occurred on Central or Southern California on anomalies, or within the margin of error (± 11 km; Data from S. CA. and N. CA catalogs):

After the work was completed

1. Big Bear I, $M = 5.1$, Feb 10, 2001

2. Coso, $M = 5.1$, July 17, 2001

After the paper was in press (September 1, 2001)

3. Anza, $M = 5.1$, Oct 31, 2001

After the paper was published (February 19, 2002)

4. Baja, $M = 5.7$, Feb 22, 2002

5. Gilroy, $M=4.9 - 5.1$, May 13, 2002

6. Big Bear II, $M=5.4$, Feb 22, 2003

7. San Simeon, $M = 6.5$, Dec 22, 2003

8. San Clemente Island, $M = 5.2$, June 15, 2004

9. Bodie I, $M=5.5$, Sept. 18, 2004

10. Bodie II, $M=5.4$, Sept. 18, 2004

11. Parkfield I, $M = 6.0$, Sept. 28, 2004

12. Parkfield II, $M = 5.2$, Sept. 29, 2004

13. Arvin, $M = 5.0$, Sept. 29, 2004

14. Parkfield III, $M = 5.0$, Sept. 30, 2004

Note: The **original** forecast was made using both the full Southern California catalog plus the full Northern California catalog, but no corrections were applied for the different event statistics in the two catalogs. In this **composite** plot a correction was applied to account for the different event statistics in the two catalogs **after** the San Simeon event occurred. N. Calif. earthquake catalog is used north of dashed line, S. Calif. Catalog is used south of dashed line at latitude 35.5°. Green triangles mark locations of large earthquakes between Jan 1, 1990 – Dec 31, 1999.